

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

- B<sup>1</sup>
1. (Currently amended) Medical membrane (1-6) for arranging in a dentine cavity of a tooth for capping of a pulp exposure wherein said medical membrane comprises at least one roughened surface which has a porous structure, and/or reticular structure, or some combination thereof.
  2. (Original) Medical membrane (1-6) of claim 1, wherein said membrane is essentially impermeable to a sealant or to a cement.
  3. (Original) Medical membrane (1-6) of claim 1, wherein the percentage of the pores or of the mesh of the porous and/or reticular surface is higher than 20 %.
  4. (Original) Medical membrane (1-6) of claim 1, wherein the average diameter of the pores and/or the width of mesh is between 0.5  $\mu\text{m}$  and 200  $\mu\text{m}$ .
  5. (Original) Medical membrane (1-6) of claim 4, wherein said average diameter of the pores and/or the width of mesh is between 1  $\mu\text{m}$  and 100  $\mu\text{m}$ .
  6. (Original) Medical membrane (1-6) of claim 1, wherein said membrane is self adhesive to the dentine or is adhesive to the dentine due to an adhesive coating.
  7. (Original) Medical membrane (1-6) of claim 1, wherein said membrane has a surface of less than 100  $\text{mm}^2$ .
  8. (Original) Medical membrane (1-6) of claim 7, wherein said membrane has a surface of less than 50  $\text{mm}^2$ .

9. (Original) Medical membrane (1-6) of claim 1, wherein said membrane has a thickness of less than 3 mm.

10. (Original) Medical membrane (1-6) of claim 9, wherein said membrane has a thickness of less than 0.5 mm.

11. (Original) Medical membrane of claim 1, wherein said membrane (1-6) has a round or oval shape.

12. (Original) Medical membrane of claim 1, wherein said membrane (1-6) is bent convex or concave.

6 13. (Original) Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises reinforcements which make said membrane plastically deformable.

14. (Original) Medical membrane (1-6) of claim 1, wherein said membrane comprises a carrier foil which partially or fully covers and/or overlaps one side of said membrane.

15. (Original) Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises an overlapping carrier foil (13-18) wherein said overlapping part of said carrier foil adheres to the dentine.

16. (Original) Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises a carrier foil (13-18) which does not form any adhesive connection to a restorative material.

17. (Original) Medical membrane of claim 1, wherein said membrane (1-6) comprises a carrier foil (13-18) which does form an adhesive connection to a restorative material.

18. (Currently amended) Medical membrane (1-6) of claim 1, wherein said membrane is made of a non-reabsorbable material, ~~preferably polytetrafluoroethylene or titanium.~~

19. (Original) Medical membrane (1-6) of claim 1, wherein said membrane is made of a reabsorbable material.

20. (Original) Medical membrane (1-6) according to claim 19, wherein said membrane is made of collagen.

B 21. (Currently amended) Medical membrane (1-6) of claim 1, wherein said membrane comprises an active compound ~~or a growth factor, respectively,~~ which ~~have~~ has an bacteriostatic or bactericidal effect ~~or which stimulate cell attachment, cell integration and tissue formation, respectively.~~

22. (Original) Medical membrane (1-6) of claim 1, wherein said membrane is impermeable to ions and to molecules.

23. (Original) A set of medical membranes (1-6) of claim 1, wherein said set comprises membranes of different size and wherein the size of said membranes is smaller than 50 mm<sup>2</sup>.

24. (Original) A method for the application of a medical membrane in dentistry, comprising the following steps:

- a) positioning of a membrane on the area of a cavity where the pulp is exposed,
- b) filling the cavity above said membrane with a restorative material.

25. (Original) Method of claim 24, wherein said membrane is in contact with the dentine surrounding the area of the exposed pulp.

26. (Currently amended) A device for the application of a medical membrane (1-6) in a cavity of a tooth comprising a handle and a removable skeleton form having a hemispherical shape.

27. (Original) The device of claim 26, wherein said removable skeleton form is suitable to remain in the cavity and usable to be embedded in a filling in the cavity.

28. (Currently amended ) Kit for the treatment of pulp exposures comprising at least a medical membrane (1-6) which comprises at least one roughened surface which as a porous and/or reticular structure and a device of claim 26 for the application of a medical membrane in a cavity ~~of claim 26~~.

B<sup>1</sup>  
29. (Currently amended) Medical membrane (1-6) for arranging in a dental cavity of a tooth for capping of a pulp exposure wherein said medical membrane comprises at least one roughened surface which is suitable for the attachment of fibrin fibers, ~~and/or for the attachment of pulp cells,~~ or the combination thereof.

30. (New) The medical membrane of claim 18, wherein said non-readsorbable material comprises polytetrafluoroethylene or titanium.

31. (New) Medical membrane (1-6) of claim 1, wherein said membrane comprises a growth factor which stimulates cell attachment, cell integration, tissue formation, or some combination thereof.

---